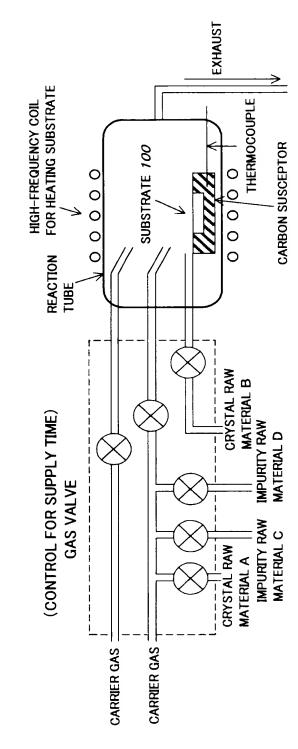
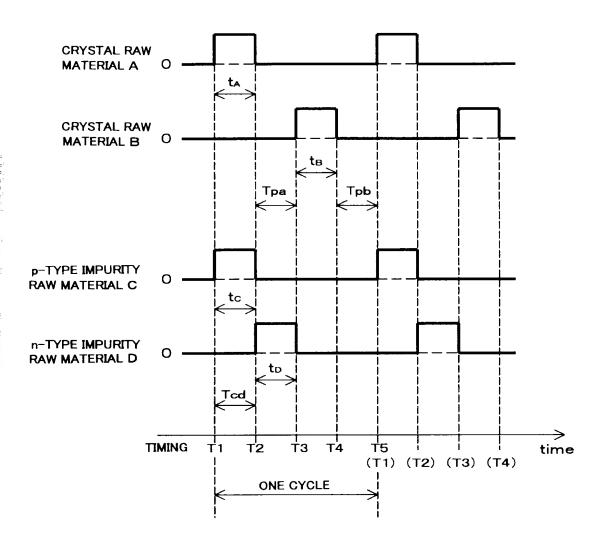
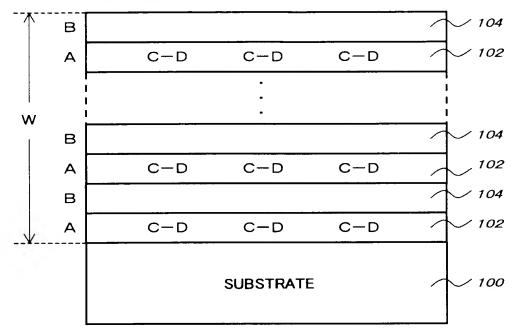
FIG. 1

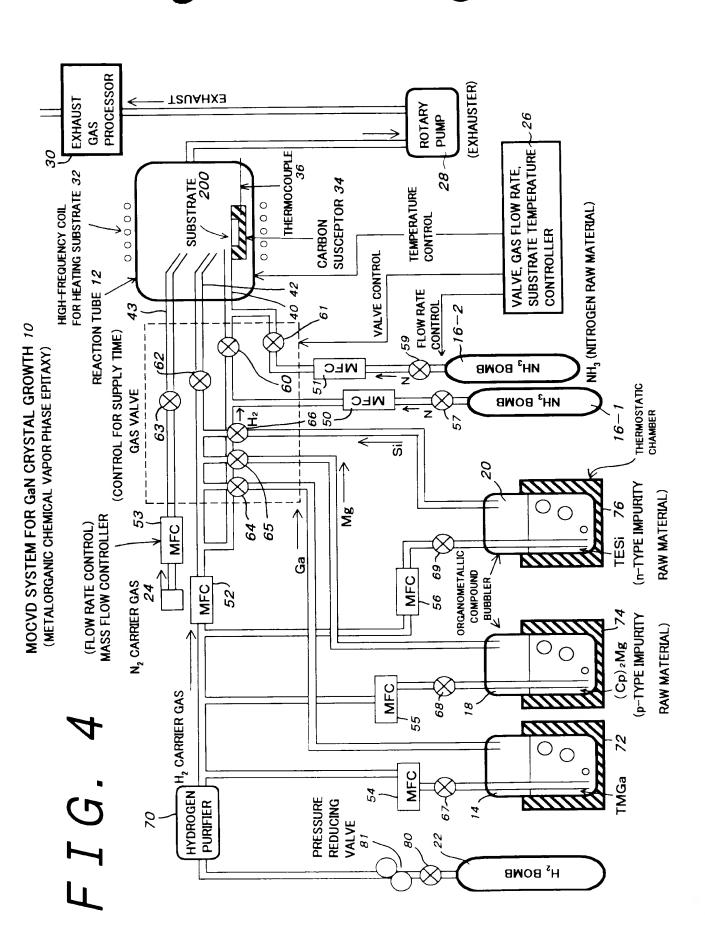


SEQUENCE OF PULSE FOR RAW MATERIAL SUPPLY

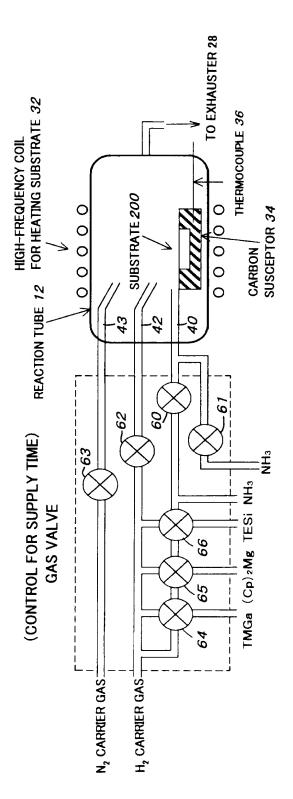


SCHEMATIC VIEW SHOWING SECTION OF A-B CRYSTAL ALLOWED TO GROW BY SIMULTANEOUS DOPING OF IMPURITIES C AND D

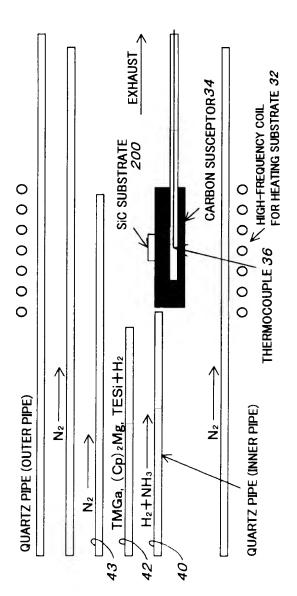




MOCVD SYSTEM 10 (METALORGANIC CHEMICAL VAPOR PHASE EPITAXY)



SCHEMATIC VIEW OF MOCVD REACTION TUBE

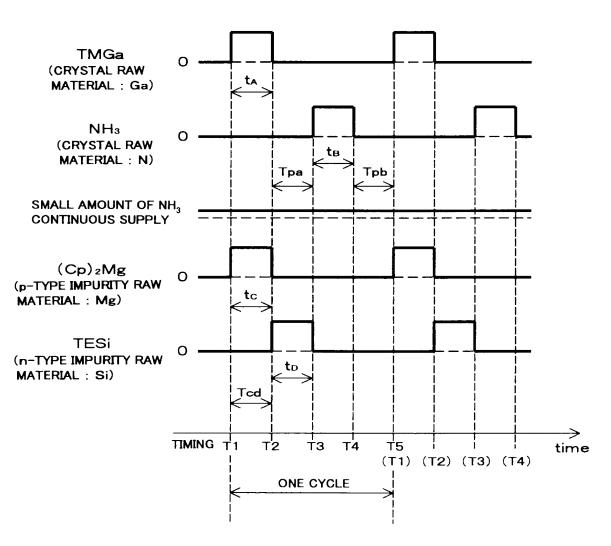


(GROWTH CONDITION)

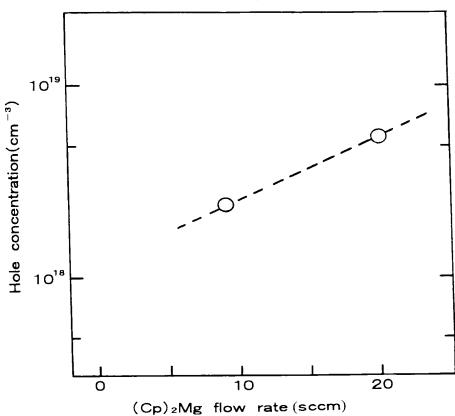
PRESSURE IN REACTION TUBE: 76Torr, SUBSTRATE TEMPERATURE: 950~1, 150°C

H₂ GAS FLOW RATE: TWO TO FIVE LITER/MINUTE N₂ GAS FLOW RATE: ONE TO THREE LITER/MINUTE NH₃ GAS FLOW RATE: ONE LITER/MINUTE

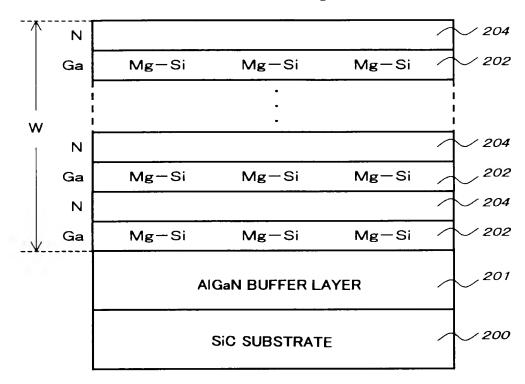
SEQUENCE OF PULSE FOR RAW MATERIAL SUPPLY



POSITIVE HOLE CONCENTRATION OF p-TYPE GaN TO SUPPLY FLOW RATE OF Mg RAW MATERIAL



SCHEMATIC VIEW SHOWING SECTION OF GaN CRYSTAL ALLOWED TO GROW BY SIMULTANEOUS DOPING OF Mg AND Si



POSITIVE HOLE CONCENTRATION OF p-TYPE GaN TO SUPPLY FLOW RATE OF SI RAW MATERIAL IN CASE OF SIMULTANEOUS SUPPLY OF Mg AND SI RAW MATERIALS

